

AMENDMENTS TO THE CLAIMS

Please amend claims 31 and 32, and cancel claims 1-30, as set forth in the listing of claims that follows:

1-30. (Cancelled)

31. (Currently Amended) A planar temperature sensor comprising:

a substrate;

a sensing material disposed on the substrate, wherein the sensing material comprises a metal is selected from the group consisting of platinum, rhodium, and palladium ~~and mixtures and alloys comprising at least one of the foregoing sensing materials~~;

a protective coating disposed on at least a portion of the sensing material, wherein the protective coating comprises an aluminide or silicide compound containing the metal of the sensing material.

32. (Currently Amended) The planar temperature sensor of Claim 31, wherein the protective coating further comprises an additional material selected from the group consisting of yttrium, and zirconium, ~~and mixtures comprising at least one of the foregoing materials~~.

33. (Original) The planar temperature sensor of Claim 32, wherein the protective coating has a thickness of about 2 nm to about 20 nm.